Semi-annual Report April-September 1965 by Rupert Wildt

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At the invitation by the California Institute of Technology and the Jet Propulsion Laboratory the principal investigator took part in the conference on the Moon and Planets, held in Pasadena on September to 13-18, 1965. On September 17 he visited the Laboratory of Prof. Kennedy at UCLA, together with his collaborator, Prof. DeMarcus, of the University of Kentucky. They conferred with Prof. Kennedy on his recent results regard the melting-curves of solid NH, and CH, which are relevant to the structure of Jupiter, and urged measurement of P-V-T relations for mixtures of gaseous H_2 and H_2 with varying amounts of NH_3 and CH_4 added. Such measurements are needed to test the existence 💥 domains of limited miscibility of these compound systems, may have a bearing on the secular stability of Jupiter's Red Spot The relevance of the phenomenon of limited miscibility of phases to the dynamics of Jupiter's atmosphere is discussed in Letter to the Editor of Nature, submitted by DeMarcus and Wildt.

DeMarcus and Wildt have been working on a review article on the Interiors of Planets, which is being prepared at the request of the Editor of the Annual Review of Astronomy and Astrophysics.

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